

Claims

1 1. A door lock mechanism for a door comprising:
2 a door handle movable from a rest position to an activated position;
3 a first bias spring biasing the door handle to return to the rest
4 position;
5 a lock button movable at least from an unlocked position to a locked
6 position, wherein when the lock button is in the locked position an
7 associated door lock mechanism is locked thereby preventing the door
8 from being opened at least from the exterior of the vehicle and wherein the
9 lock button is configured such that when it is in an unlocked position the
10 lock button is capable of inadvertently being moved to its locked position
11 by at least the operation of the door handle;
12 the lock mechanism and lock button being configured such that a
13 release of the door handle under certain conditions from its activated
14 position initiates movement of the lock button to its locked position;
15 the lock mechanism further includes a lever assembly for blocking
16 the lock button from moving to the locked position of the lock button in
17 response to the quick release of the door handle.

1 2. The lock mechanism as defined in Claim 1 wherein the lock
2 mechanism further includes bias means for selectively biasing the lever
3 assembly to move toward a blocking position.

1 3. The lock mechanism as defined in Claim 1 wherein the door handle
2 is configured to rotate about a first axis and wherein the lever means is
3 configured to rotate about a second axis, wherein the second axis is
4 orientated at a determinable angle relative to the first axis.

1 4. The lock mechanism as defined in Claim 1 wherein the door handle
2 is configured to rotate about a first axis and wherein the lever means is

3 configured to rotate about a second axis, wherein the second axis is
4 perpendicular to the first axis.

1 5. The lock mechanism as defined in Claim 1 wherein the lock button
2 is configured to rotate about a third axis, the third axis being generally
3 parallel to the first axis.

1 6. The lock mechanism as defined in Claim 1 including sequencing
2 means for moving the lever assembly to a position remote from the lock
3 button.

1 7. The lock mechanism as defined in Claim 6 wherein the lever
2 assembly sequencing means is configured to be moved to the remote
3 position as the door handle returns to its rest position.

1 8. The lock mechanism as defined in Claim 1 further including a lock
2 button bias means for biasing the lock button toward the lock position.

1 9. The lock mechanism as defined in Claim 1 including stop means for
2 preventing the lever assembly from rotating beyond a desired blocking
3 position.